

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/07142

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C30B25/10 C30B25/02 C30B29/04 C23C16/27 C23C16/511
C23C16/515

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C30B C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HASSOUNI K ET AL: "investigation of chemical kinetics and energy transfer in a pulsed microwave H ₂ /CH ₄ plasma" PLASMA SOURCES SCIENCE AND TECHNOLOGY, IOP PUBLISHING LTD, vol. 10, 2001, pages 61-75, XP002253862 paragraphs '0002!', '!', '04.1!', '!', '04.2!'	1-8
A	US 6 110 542 A (INOUE TOHRU ET AL) 29 August 2000 (2000-08-29) examples 1-3 ----- -/--	1,2,4,5

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document relating to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

10 September 2003

Date of mailing of the international search report

26/09/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LAIMER J ET AL: "GROWTH OF DIAMOND IN A PULSED MICROWAVE DISCHARGE" DIAMOND AND RELATED MATERIALS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 3, no. 3, 1 February 1994 (1994-02-01), pages 231-238, XP000483448 ISSN: 0925-9635 paragraph '0002!	1-7
A	AKHMEDZHANOV R A ET AL: "Studies of pulse operation regime of microwave plasma CVD reactor" DIAMOND AND RELATED MATERIALS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 11, no. 3-6, March 2002 (2002-03), pages 579-583, XP004356979 ISSN: 0925-9635 the whole document	1-7

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Information on patent family members

International Application No

PCT/EP 03/07142

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6110542	A	29-08-2000	JP 2676091 B2	12-11-1997
			JP 4132683 A	06-05-1992
			JP 3028121 B2	04-04-2000
			JP 4132684 A	06-05-1992
			JP 2995339 B2	27-12-1999
			JP 4131381 A	06-05-1992
			US 5626922 A	06-05-1997
			KR 9311413 B1	06-12-1993